



# भारत का राजपत्र The Gazette of India

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नई दिल्ली, शनिवार, सितम्बर 15, 1990 (भाद्रपद 24, 1912)

No. 37]

NEW DELHI, SATURDAY, SEPTEMBER 15, 1990 (BHADRA 24, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 15th September 1990

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Telegraphic address "PATENTOFIS".

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Calcutta-700 020.

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## पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 15 सितम्बर 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोही इस्टेट,  
तीसरा तल, लोअर परेल (पश्चिम),  
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर दवेली।

तार पता—''पेटोफिस''

पेटेंट कार्यालय शाखा,  
इकाई से० 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय शाखा,

61, वालाजाह रोड,

मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिर्कोय तथा एमिनिदिवि द्वीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
भवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंट्स''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य बनावेश अथवा ढाक आवेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक द्राफ्ट अथवा चेक द्वारा की जा सकती है।

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE  
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

7th August, 1990

- 675/Cal/90. Lawrence McCully Judd, Jr. Water Purifier.
- 676/Cal/90. Westinghouse Electric Corporation. Improvements in or relating to heat exchangers and electrical apparatus having heat exchangers.  
[Divisional dated 24th June, 1987]
- 677/Cal/90. Hitachi, Ltd. Electrically insulated coil, electric rotating machine, and method of manufacturing the coil.
- 678/Cal/90. General Electric Company. Method for making a transformer core comprising amorphous steel strips surrounding the core window.
- 679/Cal/90. General Electric Company. Method and apparatus for making a transformer core comprising amorphous metal strips surrounding the core window.
- 680/Cal/90. Mitsuba Electric Manufacturing Co., Ltd. Field device for revolving electric machine.

8th August, 1990

- 681/Cal/90. Lanxide Technology Co. Lp. Porous ceramic composite with dense surface.  
[Divisional dated 9th July, 1987]
- 682/Cal/90. Siemens Aktiengesellschaft. High temperature-resistant corrosion protection coating, in particular for gas turbine components, and method of application.
- 683/Cal/90. Siemens Aktiengesellschaft. Highly corrosion and/or oxidation-resistant protective coating containing rhenium.
- 684/Cal/90. Beloit Corporation. A bearing blanket for an extended nip press.
- 685/Cal/90. Andre Gabriel Bouvier. Packet opening device.
- 686/Cal/90. Bike-O-Matic, Ltd. Pump.  
(Convention dated 29th September, 1989; No. SN 615485; CANADA)

## ALTERATION

- 167177 : Anti-dated April 27, 1982.  
(468/Mas/86)
- 167180 : Anti-dated February 23, 1984.  
(659/Mas/86)
- 167196 : Anti-dated October 09, 1984.  
(183/Mas/88)

## PATENTS SEALED

165518 165527 165716 165717 165718 165719 165720 165742 165762  
165764 165787 165811 165812 165815 165816 165817 165820 165822  
165825 165847 165850 165852

CAL — 5  
MAS — 12  
DEL — 5  
BOM — NIL

## RENEWAL FEES PAID

146191 149511 149642 149948 150004 150699 151891 152042 152783  
152800 152953 153085 155455 156240 156997 157461 157977 158403  
158888 158889 159078 159103 159742 159849 161341 161382 161718  
161920 161921 162220 162746 164057 165142 165537

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Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी भी नियंत्रक, एकस्य को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।”

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी आवायगी पर की जा सकती है। विनिर्देश की पुष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पुष्ठ का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकल्पन किया जा सकता है।

Int. Class : H 01 h 71/00.

167161

## AN ELECTRICAL CIRCUIT BREAKER

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : ROBERT JOSEPH TEDESCO.

Application No. 477/Cal/1986 filed on June 25, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

An electrical circuit breaker comprising a first electrical contact, a second electrical contact, operating means for moving said first and second electrical contacts into and out of engagement said operating means having an OPEN position, a CLOSED position and a TRIPPED position, said operating means including an over-center toggle mechanism and a manually engagable handle for moving said operating means from said TRIPPED position to and beyond said OPEN position and then to said CLOSED position after the circuit breaker has been tripped so as to reset the operating means, said over-center toggle mechanism comprising a rigid one-piece pivotable cradle having an elongated, arcuate cam surface formed along a portion thereof, and a cradle cam pin movable by said handle and disposed for engaging the arcuate cam surface of said cradle during a reset operation, said cradle cam surface having a curvature which is configured so as to apply substantially constant reset force to said cradle cam surface through said handle and said cradle cam pin to reset said operative means whereby the mechanical advantage of the handle is increased.

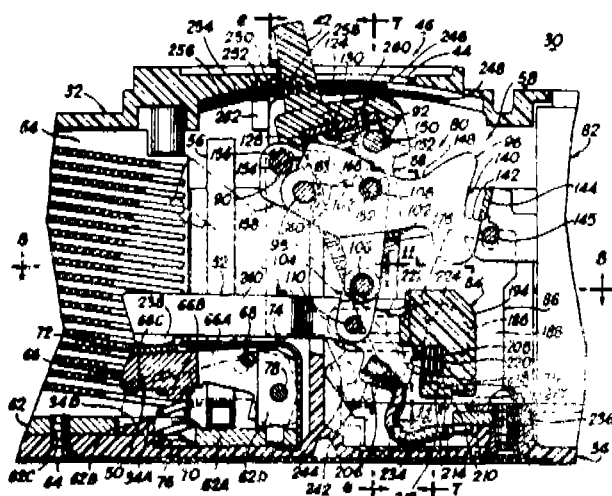


Fig. 5

Compl. Specn. 39 Pages.

Drgs. 8 Sheets.

Class : 172-Ca.

167162

Int. Class : D 01 b 1/00.

**A PINE-APPLE LEAF FIBRE EXTRACTION MACHINE.**

**Applicant :** BRITANIA ENGINEERING PRODUCTS & SERVICES LIMITED, CHATTERJEE INTERNATIONAL CENTRE, A-1, 18TH FLOOR, 33A, J. L. NEHRU ROAD, CALCUTTA-700071, STATE OF WEST BENGAL, INDIA.

**Inventors :** (1) SHRI SUBHENDU SEKHAR SARKAR, (2) SHRI BINAYENDRA KUMAR GOSWAMI.

**Application No.** 550/Cal/1986 filed on July 22, 1986.

**Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.**

**22 Claims**

A pine-apple leaf fibre extraction machine comprising (i) a feeder tray of preferably rectangular shape mounted slidably in a substantially horizontal plane; (ii) a feeder roller having a plurality of annular teeth on the round surface thereof and being rotatably mounted with its axis of rotation held substantially perpendicular to the long sides and parallel to the plane of said feeder tray at a predetermined height above said plane; (iii) a cutter roller having one or more cutter blades fitted on the round surface thereof and being rotatably mounted in such a way that its axis of rotation is held substantially parallel to that of said feeder roller and in the same plane as that of the upper surface of said feeder tray at a predetermined distance away from the adjacent side of said tray; (iv) a collector tray held underneath said cutter roller in a plane inclined to the blade of the machine at a predetermined angle; and (v) a driving arrangement comprising an electric motor, pulleys, V-belts, and shafts being adapted to maintain a predetermined ratio of at least 30 between the speeds of rotation of said cutter and feeder rollers.

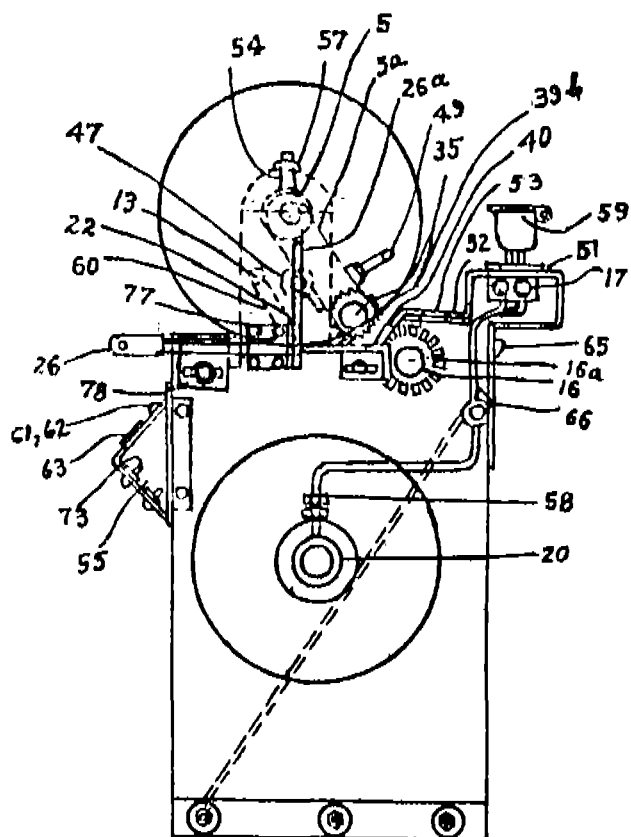


Fig. 4

Compl. Specn. 14 Pages.

Drgs. 3 Sheets.

CLASS : 148-B.

167163

Int. Cl. : G 03 b 9/08.

**A CAMERA HAVING AT LEAST AN ADJUSTABLE FOCUS LENS OR AN ADJUSTABLE APERTURE MOVABLY RESPONSIVE TO A CONTROL MEMBER.**

**Applicant :** W. HAKING ENTERPRISES LIMITED, OF 981 KING'S ROAD, NORTH POINT, HONG KONG.

**Inventor :** KLAUS RASCHKE.

**Application No.** 562/Cal/1986 filed on July 24, 1986.

**Convention dated** 27th May, 1986; No. 8612744; Great Britain.

**Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.**

**8 Claims**

An improved camera having at least one of an adjustable focus lens movably responsive to a focus control member coupled thereto and movable over a range of positions establishing a range of focussing distances and an exposure control system adjustable over a range of exposure values responsively to the position of an exposure control

member movable over a range of positions, control member drive means for operating at least one of said focus control member and said exposure control member to be driven over said range of positions from initial to final extreme positions thereof, locking control means for engagingly arresting the driven motion of said at least one driven control member according to scene sensing provided by at least one scene sensing provided by at least one scene sensor, and a shutter system including shutter-actuating means (such as a shutter actuating slide means) movable against the force of a shutter energizing spring to be held in a cocked position by a releasable latch, said shutter-actuating means engaging said shutter to actuate a shutter exposure cycle during a terminal portion of the motion of the shutter-actuating means upon release of said latch; the improvement comprising:

velocity limiting means coupled to engage said shutter-actuating means and limit the velocity thereof during an initial portion of the motion of said shutter-actuating means upon release of said latch and to disengage from said shutter actuating means prior to said engagement of said shutter;

regulator means for coupling the motion of said shutter-actuating means to said at least one driven control member during said initial portion of the motion of said shutter-actuating means so as to limit the speed of movement of said control member, said regulator means including releasing means for releasing said regulator means from the coupled condition when the motion of said at least one driven control member is arrested by said locking control means, said velocity limiting means disengaging from said shutter-actuating means has travelled at least one drive control member over its entire range of positions and before engaging said shutter;

said regulator means includes a lost motion coupling linkage configured to provide for re-establishment of a coupled condition between said control member and said shutter-actuating means attendant to cocking return of said shutter slide to engage said latch so as to return said control member to said initial extreme position thereof against the force of said control member drive means;

said velocity limiting means includes limiter decoupling means for decoupling said velocity limiting means from a velocity limiting coupled condition with said slide-actuating means attendant to a cocking return of said slide actuating means to engage said latch.

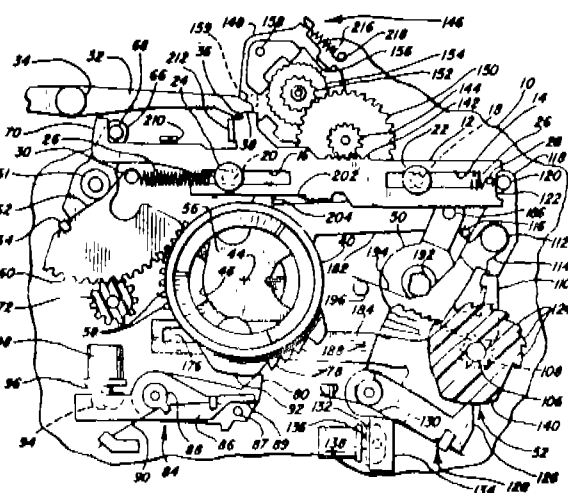


Fig. 1

Compl. Specn. 34 Pages.

Drgs. 4 Sheets.

CLASS: 194-C1.  
Int. Cl.: G 09 g 1/00.

167164

# VARIABLE COLOUR DISPLAY DEVICES FOR CONTROLLING THE COLOUR OF THE DISPLAY IN THREE STEPS.

Applicant & Inventor: KAREL HAVEL, 15 KENSINGTON ROAD, APT. 704 BRAMALEA, ONTARIO, CANADA L6T 3W2, CANADA.

Application No. 197/Cal/1987 filed on March 10, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 3 Claims

A variable colour display device comprising:

a plurality of variable colour display areas arranged in a pattern, each said display area including a first light source for emitting upon activation light signals of a first colour, a second light source for emitting upon activation light signals of a second colour, and means for combining said light signals in each said display area to obtain a composite light signal of a composite colour;

a decoder for selectively activating groups of said display areas to exhibit one of a plurality of display units;

a first bus to which the first light sources are commonly coupled for enabling, upon activation of said first bus, the first light sources in the display areas activated by said decoder to be illuminated in said first colour;

a second bus to which the second light sources are commonly coupled for enabling, upon activation of said second bus, the second light sources in the display areas activated by said decoder to be illuminated in said second colour; and

a colour control including an input for receiving a colour control signal and outputs for developing output control signals for simultaneously activating, in response to said colour control signals, said first bus and said second bus, to illuminate the exhibited display unit in said composite colour.

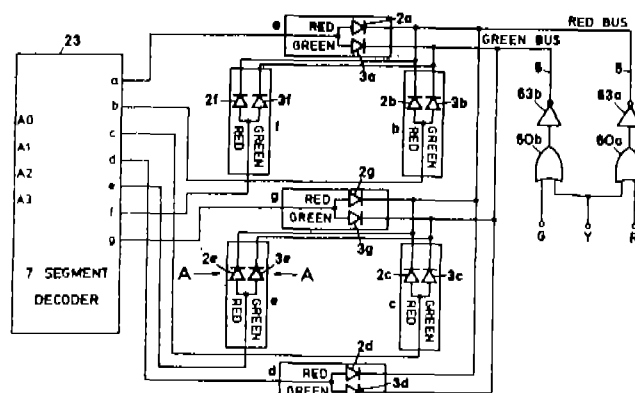


Fig. 1

Compl. Specn. 10 Pages.

Drg. 1 Sheet.

Int. Cl. : F 04 d 29/42.

167165

2 Claims

**FLUID FLOW MACHINES IN PARTICULAR CENTRIFUGAL PUMPS.**

Applicant : KLEIN, SCHANZLIN & BECKER AKTIENGESELLSCHAFT, OF POSTFACH 223, JOHANN-KLEIN-STRASSE 9, D-6710 FRANKENTHAL (PFAIZ), FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) GERD HEINZ BAUER, (2) GUNTER FELDLE, (3) HERBERT HARTMULLER, (4) ERNST LUHN, (5) ALEXANDER NICKLAS, (6) OLIVER SCHUSTER.

Application No. 512/Cal/1987 filed on July 02, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

13 Claims

In a fluid flow machine, particularly in a centrifugal pump, wherein a shaft is rotatable about a predetermined axis and the fluid to be conveyed by the machine flows substantially radially of and toward such axis, the combination of a pump casing and an elbow casing, said elbow casing being rigid with said pump casing and comprising at least two neighbouring sections having closely or immediately adjacent surfaces disposed at least substantially at right angles to said predetermined axis, said elbow casing defining a hole for the shaft of the fluid flow machine and a passage for the flow fluid, at least a portion of said passage being machined into at least one of said surfaces.

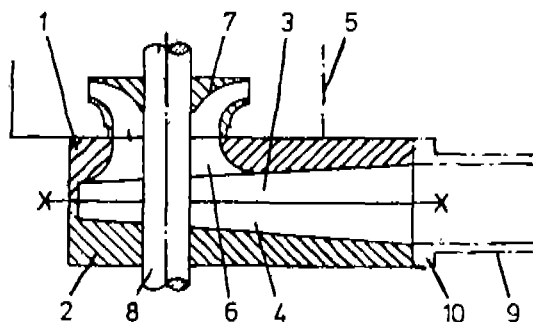


Fig. 1

Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

CLASS : 39-E0.  
Int. Cl. : E 04 b 1/64.

167166

**PROCESS FOR PREPARING DAMP-PROOF COURSE FOR HYDRAULIC STRUCTURES.**

Applicant : VSESOUJZNY NAUCHNO-ISSLED-OVATELSKY I PROEKTNY INSTITUT AIJU-MINIEVOI, MAGNIEVOI I ELEKTRODNO I PROMYSHLENNOSTI, OF LENINGRAD, SREDNY PROSPEKT, 86, U S S R.

Inventors : (1) ALEXANDR GENNADIEVICH SUSS, (2) ALEXANDR ISAAKOVICH TSEKHOVOI, (3) VALERY ANANIEVICH CHERNYAVSKY, (4) VALENTIN ISAAKOVICH KORNEEV, (5) DMITRY GEORGIEVICH LOMAGIN.

Application No. 774/Cal/1987 filed on October 05, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

A process for preparing a damp-proof course for hydraulic structures, said damp-proof course being based on red mud as described herein, which comprises of:

- (i) obtaining a red mud composition containing fractions above 50  $\mu$ m no more than 10% the mass of the mud and having a moisture content defined by a solid-to-liquid ratio equal to 1 : 0.5-0.6 the said operations of effecting the differentiation of mud particles and desired dehydration of the mud being preferably done in combination on a specially prepared platform as described herein;
- (ii) forming a damp-proof course of the thus obtained red mud on the surface being damp-proofed and
- (iii) effecting compaction of the damp-proof course of step (ii) above, to a porosity not exceeding 0.6 - 0.65.

Compl. Specn. 13 Pages.

Drgs. NIL.

CLASS : 29-D.  
Int. Cl. : G 11 b 25/00 ; G 06 k 19/00.

167167

**STORAGE DEVICE WITH MOVABLE INFORMATION CARRIER.**

Applicant : INSTITUT PROBLEM MODELIROVANIA V ENERGETIKE AKADEMII NAUK UKRA INSKOI SSR, OF KIEV, PROSPEKT POBEDY, 56, U S S R.

Inventors : (1) VYACHESLAV VASILIEVICH PETROV, (2) ALEXANDR ALEXANDROVICH ANTONOV, (3) ALEXANDR PETROVICH TOKAR, (4) ALEXANDR VASILIEVICH BORISOV.

Application No. 928/Cal/1987 filed on November 26, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

An information storage device equipped with a movable information carrier, comprising a read-write unit and a device for storing and changing information carriers, characterised in that the said information carriers are made cylindrical and installed inside the device for storing and changing information carriers so that these information carriers can rotate about the axes thereof.

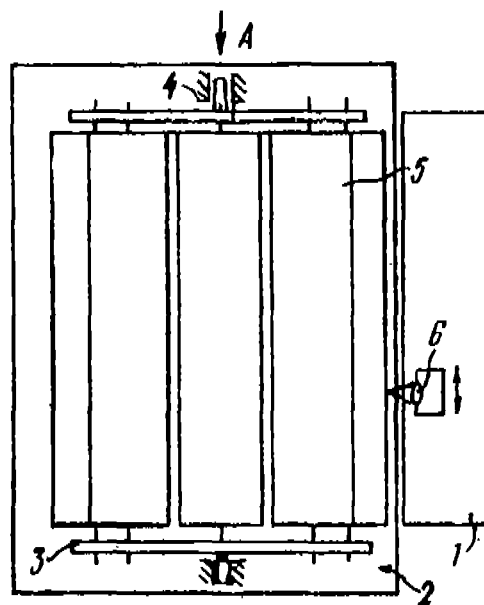


Fig. 1

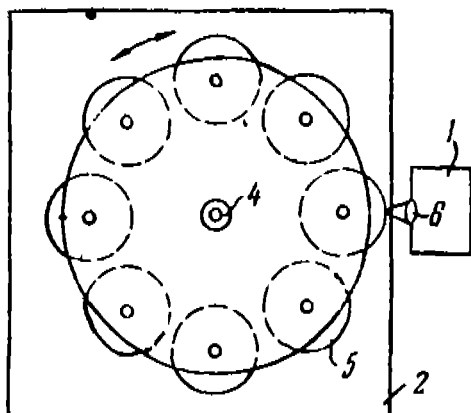


Fig. 2

Compl. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS : 48-D; 3; 48-C.

167168

Int. Cl. : H 01 b 3.00 ; 7/00 ; 17/00.

## A SUSPENSION INSULATOR.

Applicant : NGK INSULATORS, LTD. OF 2-56, SUDA-CHO, MIZUHO-KU, NAGOYA CITY AICHI PREF. JAPAN.

Inventors : TSUTOMU MORIYA, HIROSHI NOZAKI.

Application No. 72/Cal/1988 filed on January 28, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A suspension insulator comprising an insulating member with a head portion of the porcelain and a shed extending radially from the said head portion of the porcelain, said head portion having a pin hole with a closed top and a downward opening, inside surface of said pin hole including a cylindrical surface portion adjacent to said downward opening, a curved top surface facing said opening and a round corner surface forming a smooth boundary between the cylindrical surface portion and the curved top surface;

a metal cap cemented to top of said head portion of the porcelain; and

a metal pin cemented within said pin hole of said head portion, said inside surface of said pin hole including a cemented portion which has sands rigidly deposited thereon over a range extending from a bottom of said cemented portion adjacent said open bottom, to a level within  $\pm 3$  mm of a junction between said cylindrical surface portion and said round corner surface portion.

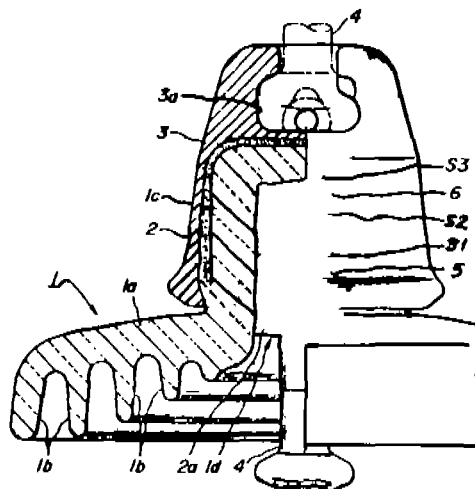


Fig. 4

Compl. Specn. 12 Pages.

Drgs. 4 Sheets.

CLASS : 48-A; 2-B.

167169

Int. Cl. : H 01 b 7/00 ; H 01 r 4/00 ;

H 01 r 9/00 ; 11/00.

## WIRE CONNECTOR FOR CABLE WIRES.

Applicant : KRONE AKTIENGESellschaft, OF BEES-KOWDAMM 3-11, D-1000 BERLIN 37, WEST GERMANY.

Inventors : (1) DIETER GERKE, (2) MANFRED MULLER.

Application No. 227/Cal/1988 filed on March 17, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

20 Claims

Wire connector for cable wires in particular for telecommunications, comprising a lower part of housing with at least two guide channels for the cable wires, at least one upper part of housing to be snapped in into the lower part of housing, cutting/clamping contacts inserted into the guide channels of the lower part of housing and provided with contact slots, the cutting/clamping contacts of two correlated guide channels being electrically connected to each other, and press-in pieces for the cable wires formed at the underside of the upper part of housing and cooperating with the contact slots of the cutting/clamping contacts,

characterized by that in each guide channel (4, 34, 64), a separating knife (6, 36, 66) for the cable wires (7, 8; 37, 38; 67, 68) is arranged,

that the lower part of housing (2, 32, 62) exhibits separating pieces (14, 16, 18; 74) at its underside, and that the upper part of housing (2, 32, 62) is latchable in two different positions with respect to the lower part of housing (1, 31, 61), the separating pieces (14, 16, 18; 74) cooperating in only one position with the separating knives (6, 36, 66).

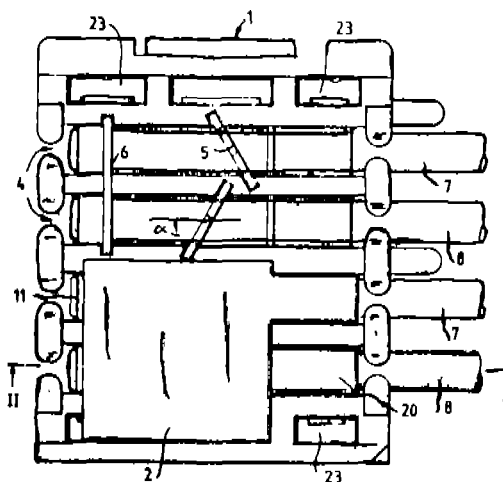


Fig. 1

Compl. Specn. 20 Pages.

Drgs. 7 Sheets.

CLASS : 195-D.

167170

Int. Cl. : F 16 k 21/00.

## FLOW CONTROL VALVE APPARATUS.

Applicant : HITACHI CONSTRUCTION MACHINERY CO. LTD. OF 6-2, OTEMACHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) KEN ICHIRYU, (2) TAKASHI KANAI, (3) MASAMI OCHIAI, (4) YUUSAKU NOZAWA, (5) HIDEYO KATO.

Application No. 387/Cal/1988 filed on May 13, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 15 Claims

A flow control valve apparatus comprising: a housing (5; 5A) including a main fluid passage (4) having an inlet port (2) and an outlet port (3); a main valve (6; 81; 174) disposed between said inlet port and said outlet port for allowing or shutting off communication between said inlet port and said outlet port; a backpressure chamber (11) formed between an inner wall of said housing (5; 5A, 5B) and a rear portion (10) of a valve member (8; 82) of said main valve said backpressure chamber communicating with said inlet port through an orifice (12); an auxiliary passage (13; 92, 94) for placing said backpressure chamber in communication with said outlet port; and a pilot valve (14; 61; 96; 101; 121; 141; 161; 177; 190; 191; 193) for actuating said main valve by controlling the opening and closing of said auxiliary passage and varying the fluid pressure in said backpressure chamber,

characterized by a differential pressure generating means (30; 64; 71; 131; 146; 171) disposed in said main fluid passage (4) for generating differential pressures that correspond to the flow rate in said main fluid passage, said differential generating means (30; 64; 71; 131; 146; 171) including a displacement member (32; 72; 132; 147; 172) disposed for movement in the direction of fluid flow in said main fluid passage and spring means (33; 182) for urging said displacement member in the direction opposite to said direction of fluid flow, said displacement member cooperating with a wall surface (34; 65) of said main fluid passage to define a fluid passage having an opening area which increases with an increase in the stroke of travel of said displacement member; and

control means (40; 115; 158; 183) for controlling the operating force of said pilot valve (14; 96; 101; 121; 141; 161; 177; 190; 191; 193) in correspondence with differential pressures generated by said differential pressure generating means.

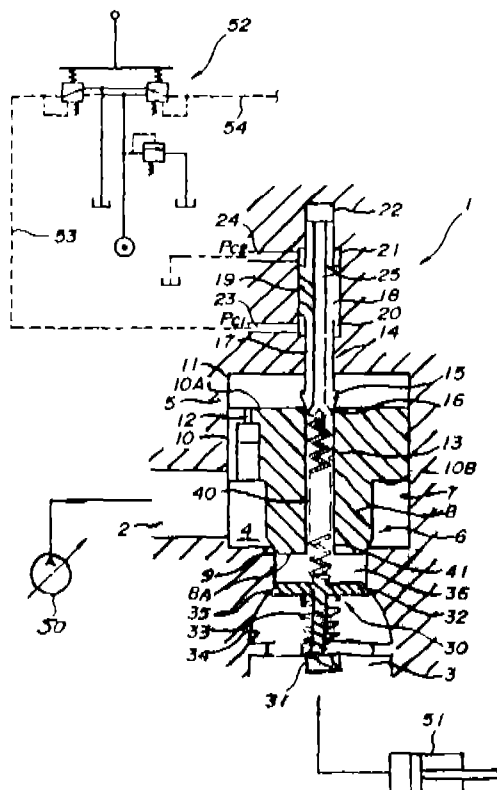


Fig. 1

Compl. Specn. 62 Pages.

Drgs. 14 Sheets.

Ind. Cl.: 54-[GROUP-XIV (3)]  
Int. Cl.: A 23 F 3/18

167171

### A PROCESS FOR PREPARING A POWDERED TEA EXTRACT.

Applicant: SOCIETE DES PRODUITS NESTLÉ S.A. OF CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventors: (1) TITO LIVIO LUNDER, (2) CORINE MADELEINE NIELSEN.

Application No. 185/Mas/86 filed on March 14, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 5 Claims

A process for preparing a powdered tea extract comprising the steps of extracting black tea leaves with hot-water to give a first extract which is separated from the tea leaves, concentrating the first extract in vacuum to obtain a concentrate having a solid content of 5% to 12.5% by wt. cooling the said concentrate to 5 to 15°C to form an insoluble cream, separating the said insoluble cream therefrom extracting the said insoluble cream with water at a temperature from 40° to 70°C to obtain a second extract separating the insoluble cream therefrom, combining the said first and the said second water extract, drying and powdering the resultant product.

Compl. Specn. 7 Pages.

No Drawing.

Ind. Cl.: 11-C-[GROUP-I (2)]  
Int. Cl.: A 01 M 7/00

167172

### CRAWLING PEST ELIMINATOR APPARATUS.

Applicant & Inventor: ROBERT McQUEEN, A CITIZEN OF THE UNITED STATES OF AMERICA, OF 2744 SHIPLEY TERRACE, S. E., WASHINGTON D. C. 20020, U. S. A.

Application No. 274/Mas/86 filed on April 11, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 8 Claims

A crawling pest eliminator apparatus comprising:

a frame,

A crawling pest flushing means supported on said frame for spraying a flushing agent to flush crawling pests out of their hiding places,

a vacuuming system supported on said frame,

said vacuuming system comprising a recovery container, a nozzle adapted to ride on surfaces for vacuuming into said recovery container the eggs of the crawling pests and the crawling pests themselves having those flushed out by said crawling pest flushing means, and a vacuum hose operatively connected to said recovery container and to said nozzle,

a residual depositing means supported by said frame for depositing a pesticide residual on the surfaces which have been vacuumed of crawling pests and their eggs by said vacuuming system, and

spraying means for selectively spraying the flushing agent of said crawling pest flushing means and the pesticide residual of said residual depositing means.

Compl. Specn. 14 Pages.

Drgs. 4 Sheets.



Ind. Cl. : 150-C-[GROUP-XLVIII(1)]  
Int. Cl.<sup>4</sup> : H 01 R 43/048.

167173

# A MACHINE FOR ASSEMBLING A HOSE AND FITTING BY CRIMPING.

Applicant : STRATOFLEX, INC., OF 220 ROBERTS CUT-OFF, FORT WORTH, TEXAS 76114, U. S. A. A CORPORATION OF THE STATE OF TEXAS, U. S. A.

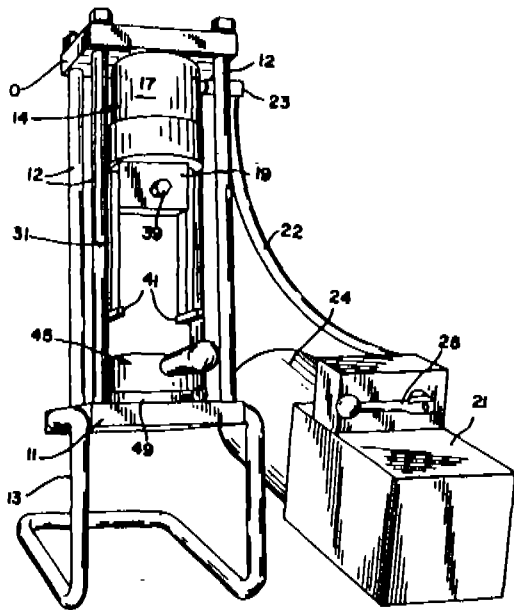
Inventor : WENDLE RAY PHIPPS

Application No. 298/Maa/86 filed on April 21, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 14 Claims

A machine for assembling a hose and fitting by crimping, comprising a base plate, power unit connected to said base plate, said unit has a ram which is movable on a ram axis toward and away from said base plate, a die set positionable on said base plate during operation of the machine, a die bowl positionable on said die set, said die bowl and said die set having cooperating cam surfaces thereon, and an extension attached to said ram, said extension being pivotable relative to said ram on a pivot axis which is perpendicular to said ram axis and said extension being pivotable between an extended position where it is substantially parallel with said ram axis and a retracted position where it is at an angle with said ram axis.



Compl. Specn. 18 Pages.

Drgs. 2 Sheets.  
(each of size 33.00 cms. by 41.cms.)

Ind. Cl. : 9-D-[GROUP-XXXIII(1)]  
Int. Cl.<sup>4</sup> : C 22 C 38/00

167174

# AN IMPROVED METHOD AND DEVICE FOR MANUFACTURING AN ALLOY.

Applicant : INLAND STEEL COMPANY, OF 30, WEST MONROE STREET, CHICAGO, ILLINOIS 60603, U.S.A., A DELAWARE CORPORATION.

Inventors : (1) DANIEL RELLIS, (2) DONALD R. FOSNACHT, (3) CHARLES R. JACKSON.

Application No. 321/Maa/86 filed on April 28, 1986.

Convention date January 2, 1986; (No. 498, 883; Canada)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 33 Claims

An improved method of manufacturing a steel alloy wherein molten steel descends in a vertical stream from an upper container such as a ladle (10) to a lower container such as a tundish (11), and solid particles of an alloying ingredient are added to said stream, the improvement comprising the steps of:

directing said descending stream (34) initially through an elongated, vertically disposed conduit (14) having a lower end (15);

forming a bath (17) of said molten metal in said lower container (11);

positioning the lower end (15) of said conduit above the top (18) of said bath;

enclosing said conduit (14) and said descending stream (34) within elongated, vertically disposed solid, tubular shroud means (20) having walls laterally spaced from the conduit (14) and the descending stream (34) to define an unfilled, annular space (23) between the shroud means (20), the conduit (14) and the descending stream (34); the cross-sectional area of the interior of said shroud means being greater than the cross-sectional area of the conduit's interior;

employing said shroud means to protect the interior thereof and its contents from the outside atmosphere surroundings said shroud means;

providing a mixture containing a transport gas and solid particles of an alloying ingredient;

and directing said mixture into said shroud means (20) and into the interior of said descending stream (34), at a stream location below the lower end (15) of the conduit (14) and above the top (18) of the bath (17).

A device for use in manufacturing a steel alloy as claimed in claim 1, comprises : a vertically disposable, elongated conduit having a lower end; vertically disposable shroud means for said conduit, said shroud means having walls located around the outside of and laterally spaced from said conduit to define an unfilled, annular space therebetween; the cross-sectional area of the shroud's interior being greater than the cross-sectional area of the conduit's interior; said shroud means having a lower end terminating below the lower end of said conduit, there being an unobstructed, columnar, vertical space within the shroud means and extending between said two lower ends; said columnar space having a center line; said conduit comprising means for directing a descending stream of molten downwardly into said columnar space substantially along the center line thereof and laterally spaced from the walls of said shroud means; an injection port in said shroud means above said lower end of the shroud means; said injection port comprising means for directing a mixture of gas and solid particles into the interior of a descending stream of molten metal inside said shroud means, at a location below the lower end of the conduit and substantially above the lower end of the shroud means; and vent means in the shroud means above the lower end of said conduit.

Compl. Specn. 21 Pages.

Drg. 1 Sheet.

Ind. Cl.: 185-E-[GROUP-XVIII]  
Int. Cl.<sup>4</sup>: A 23 F 3/16

167175

# A PROCESS FOR THE PRODUCTION OF A COLD-WATER SOLUBLE INSTANT TEA.

Applicant: SOCIETE DES PRODUITS NESTLE S. A., CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventors: (1) BIRGIT HOFFMANN, (2) TITO LIVIO LUNDER, (3) CORINE MADELEINE NIELSEN.

Application No. 333/Mas/86 filed on April 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A process for the production of a cold-water soluble instant tea which comprises extracting black tea leaves with hot water, the said extract of black tea leaves is concentrated and cooled to form a tea cream with a solid content of 5 to 12.5% wherein the concentrated cooled extract of black tea leaves is treated with catechin or mixture of catechins in an amount of 1.25 to 2 parts by weight of tea cream to render tea cream soluble in cold water of 10° to 30°C and drying it in a known manner to obtain cold water soluble instant tea.

Compl. Specn. 14 Pages.

No Drawing.

Ind. Cl.: 40-F-[GROUP-IV(1)]  
Int. Cl.<sup>4</sup>: C 08 F 2/00

167176

# REACTOR FOR CARRYING OUT POLYMERIZATION REACTION IN SYSTEMS WITH HIGH CONCENTRATION OF POLYMERS.

Applicant: ENICHEM ELASTOMERI S. p. A., A COMPANY ORGANIZED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA RUGGERO SETTIMO 55, PALERMO, ITALY.

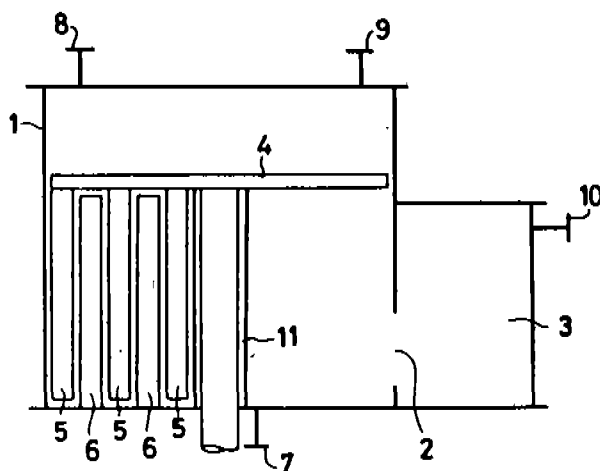
Inventor: GORDINI SILVANO.

Application No. 440/Mas/86 filed on June 6, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

Reactor for carrying out polymerization reactions in systems with high concentration of polymer, constituted by a cylindrical body (1) having vertical axis with upper and lower heads, in communication, through an opening (2) located on a generatrix of the cylinder, with a vertical-axis extruder (3), said reactor being provided with a vertical-axis stirrer the vertical shaft of which bears one or more arm(s) (4) perpendicular to it, each arm bearing in its turn vertical blades (5), furthermore, provided with one or more sets of stationary blades (6) in correspondence with the spaces left free by the above mentioned blades.



Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl.: 108-B<sub>2(b)</sub>-[GROUP-XXXIII (5)]  
Int. Cl.<sup>4</sup>: F 27 D 3/00

167177

# AN IMPROVED METHOD OF PRODUCING A MOLTEN METAL OR MOLTEN METAL ALLOY.

Applicant: ELKEM a/s, A COMPANY INCORPORATED UNDER THE LAWS OF NORWAY OF MIDDELTHUNSGATE 27, OSLO 3, NORWAY.

Inventor: KNUST EVENSEN.

Application No. 468/Mas/86 filed on June 17, 1986.

Divisional to Patent No. 158022 (469/CAL/82); Ante-dated to April 27, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

In a method of producing a molten metal or molten metal alloy by charging a charge material into a furnace pot and electrically smelting or reducing the charge material in the furnace, wherein the improvement comprises in charging the furnace pot with said charge material in the following sequence of steps:

- accumulating charge material in the charging tube with the lower section thereof in its raised position, the charging tube having a discharge opening therein which is closed when the lower tube section is in its raised position;
- lowering at least the lower section of the charging tube through the aperture in the furnace roof or hood towards the furnace pot, and opening the discharge aperture during the lowering of said tube section;
- allowing accumulated charge material to flow into the furnace pot from the charging tube through the discharge opening for smelting in the furnace pot; and
- moving at least the lower section of the charging tube upwards to its raised position for receiving further charge material.

Compl. Specn. 13 Pages.

Drg. 1 Sheet.

Ind. Cl. : 185-C &amp; E-[GROUP-XVIII]

167178

Int. Cl.<sup>4</sup> : B 01 J 2/00; 2/16

**PROCESS AND APPARATUS FOR PRODUCING AGGLOMERATED WATER SOLUBLE PARTICULATE MATERIALS SUCH AS THE SOLUBLE OR INSTANT COFFEE.**

**Applicant :** SOCIETE DES PRODUITS NESTLE S. A., CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

**Inventor :** SHENG-HSUTING HSU.

Application No. 485/Maa/86 filed on June 24, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

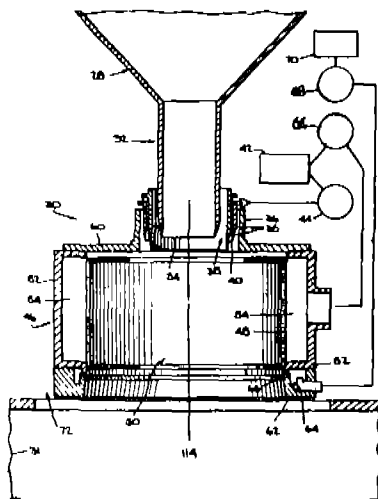
## 14 Claims

A process for producing agglomerated water soluble particulate materials such as water soluble or instant coffee comprising the steps of:

projecting a stream of the particulate material through the moistening zone in an upstream to downstream direction through a feed orifice; characterised in that it comprises;

moistening the particles by directing an aqueous gas inwardly towards said stream of particulate material at a subsonic velocity from the outside periphery of the stream so that the aqueous gas flowing inwardly towards the center of the stream surrounds the stream;

feeding a cooling gas simultaneously inwardly towards the stream of particulate material at a subsonic velocity around the exterior of the feed orifice, and drying the moistened material in a known manner.



Compl. Specn. 30 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 39-A-[GROUP-III]

167179

Int. Cl.<sup>4</sup> : C 07 C 53/16

**PROCESS FOR PRODUCING PURIFIED HYDROGEN CHLORIDE GAS DURING CHLOROACETIC ACID MANUFACTURE.**

**Applicant :** HOECHST AKTIENGESellschaft, D 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY, CHEMICAL MANUFACTURERS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

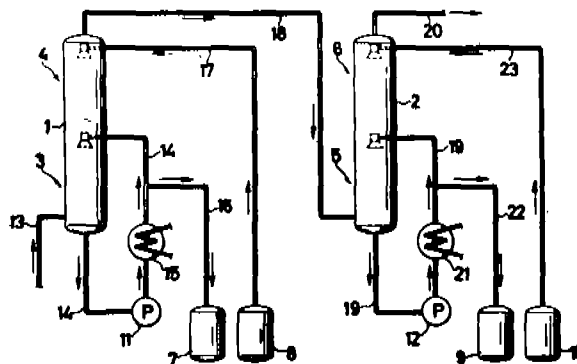
**Inventors :** HEINZ MULLER, ELMAR LOHMAR, HARALD SCHOLZ.

Application No. 497/Maa/86 filed on June 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 8 Claims

Process for producing purified hydrogen chloride gas, in two scrubbing zones connected in series, from the hydrogen chloride gas obtained as a by-product in the production of chloroacetic acid by subjecting acetic acid to a catalytic chlorination reaction with chlorine gas in the presence of acetic anhydride and/or acetyl chloride, the said hydrogen chloride gas is prepurified by cooling below 20° C resulting hydrogen chloride gas containing 0.1 to 3 vol % acetyl chloride and up to 0.1 vol % chloroacetyl chloride, comprising the steps of scrubbing the resultant hydrogen chloride gas in the first scrubbing zone with concentrated hydrochloric acid containing up to 40 wt % HCL at a temperature of 5 to 40° C followed by scrubbing in the second scrubbing zone with concentrated sulfuric acid containing 85 to 98 wt % H<sub>2</sub>SO<sub>4</sub> at a temperature of 10 to 30° C.



Compl. Specn. 9 Pages.

Drg. 1 Sheet.

Ind. Cl. : 205-B &amp; G-[GROUP-LVI]

167180

Int. Cl.<sup>4</sup> : B 60 C 9/00

**A TIRE AND A METHOD OF MANUFACTURING THE SAME.**

**Applicant :** MICHELIN & CIE (COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN), A FRENCH COMPANY OF 63040 CLERMONT-FERRAND CEDEX, FRANCE.

**Inventor :** MICHEL MERLE.

Application No. 659/Maa/86 filed on August 13, 1986.

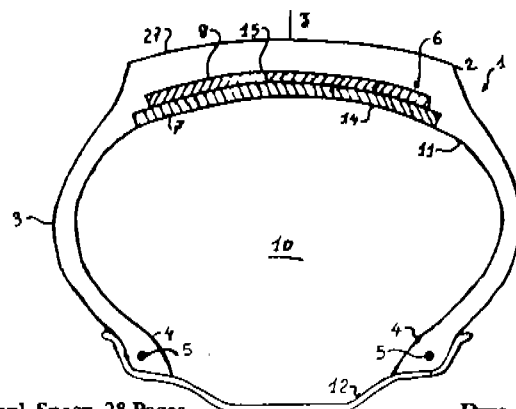
Divisional to Patent No. 160427 (126/Maa/84); Ante-dated to February 23, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 3 Claims

A method for manufacturing a tire with reinforcement ply characterized by the following steps :

- (1) directly arranging at least one reinforcement ply on a core of a tire casting mold having a mold cavity, the reinforcement ply being formed, at least in part, by a fabric having the following properties, when the fabric is arranged in such a manner as to have a generally flat shape with two flat principal faces :
  - (a) the fabric comprises a three-dimensional body and reinforcement threads arranged in the body and held by the body;
  - (b) practically all the voids in the fabric are capable of being impregnated with at least one elastomer-forming material which forms part of the structure of the tire;
  - (c) the body is capable of retaining a three-dimensional structure even if the reinforcement threads are removed from the fabric;
  - (d) the body comprises warp threads, each of these warp threads undulating practically in a plane perpendicular to the principal faces of the fabric and being alternately tangent to one of these faces and then to the other face;
  - (e) the body comprises wool threads arranged between the warp threads practically in at least four planes within the thickness of the fabric, these planes being parallel to the principal faces of the fabric;
  - (f) the reinforcement threads are arranged practically in one plane, the reinforcement threads having the same orientation, the plane of the reinforcement threads being parallel to the planes of the wool threads;
  - (g) the reinforcement threads are without contact with at least one of the principal faces of the fabric;
  - (h) the reinforcement threads are separated from each other by the threads of the body in such a manner that the reinforcement threads are without contact with each other;
  - (i) the threads of the body have a cross-section whose surface has an area at most equal to one-quarter of the area of the surface of the cross-section of the reinforcement threads;
  - (j) the ratio between the rigidity of the fabric measured according to the orientation of the reinforcement threads and the rigidity of the body by itself measured in this same orientation is at least equal to 10, these rigidity measurements being carried out for a relative elongation of 2%;
  - (k) the porosity of the fabric is at least equal to 50%;
  - (l) the permeability of the fabric is at least equal to  $10^{-11} \text{ m}^2 \text{ Pa}^{-1} \text{ s}^{-1}$  for a fluid whose viscosity is 1 Pa. s;
- (2) introducing the elastomer-forming material into the mold cavity to form the tire and to impregnate practically all the voids in the fabric.



Compl. Specn. 28 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 172-Dr-[GROUP-XX]

167181

Int. Cl. : D 01 H 15/02

A DEVICE FOR DEFINING AND CONTROLLING A PRE-DETERMINED LENGTH OF YARN PREPARATORY TO PIECING A ROTOR SPINNING MACHINE AND FOR RELEASING SAID LENGTH OF YARN FOR PIECING.

Applicant : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors : (1) WERNER GRABER, (2) WALTER SLAVIK.

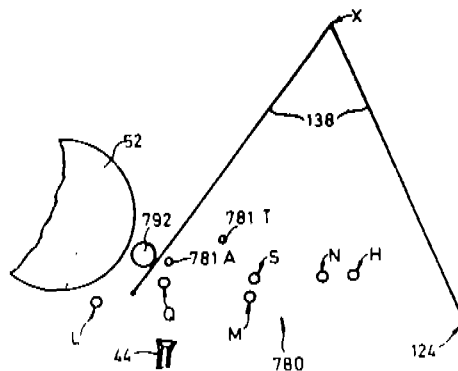
Application No. 142/Mas/86 filed on March 3, 1986.

Convention date : April 29, 1985; (No. 8510842; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras branch.

## 4 Claims

A device for defining and controlling a predetermined length of yarn preparatory to piecing a rotor spinning machine and for releasing said length of yarn for piecing said device comprising a plurality of guide elements relatively movable to define a yarn path of controllably variable form and length between yarn guide surfaces on each of said elements, one of said elements comprising a releasable yarn retainer operable to release a yarn from said path, means for locating a yarn relative to a cutting means and for moving a cut end of yarn to a predetermined position relative to the device, said elements being relatively movable during movement of the cut end to maintain taut a predetermined length of yarn extending back from said cut end.



Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 15-D-[GROUP-LIV (1)]

167182

Int. Cl.<sup>4</sup>: F 16 C 33/12**A COMPOSITION FOR A PLAIN BEARING MATERIAL**

Applicant: AEPLC. A COMPANY REGISTERED UNDER THE LAWS OF ENGLAND, OF CAWSTON HOUSE, CAWSTON, RUGBY, WARWICKSHIRE CV22 7SA, ENGLAND.

Inventor: GLYNDWR JOHN DAVIES.

Application No. 184/Maa/86 filed on March 14, 1986.

Convention date: March 15, 1985; (No. 8506807; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras branch.

**3 Claims**

A composition for a plain bearing material comprising PTFE intimately admixed with 1 to 50% by volume of crystalline aluminium trihydroxide ( $Al(OH)_3$ ), and optionally not more than 50% by volume of metallic lead.

Compl. Specn. 9 Pages.

No Drawing.

Ind. Cl.: 195-D-[GROUP-XXIX(3)]

167183

Int. Cl.<sup>4</sup>: F 16 K 1/08**AN OUTLET VALVE FOR A MELT CONTAINING VESSEL**

Applicant: BRITISH STEEL PLC, A BRITISH CORPORATION INCORPORATED AND EXISTING UNDER THE IRON AND STEEL ACT, 1967, OF 9 ALBERT EMBANKMENT, LONDON SE1 7SN, ENGLAND.

Inventor: JAMES MONKS.

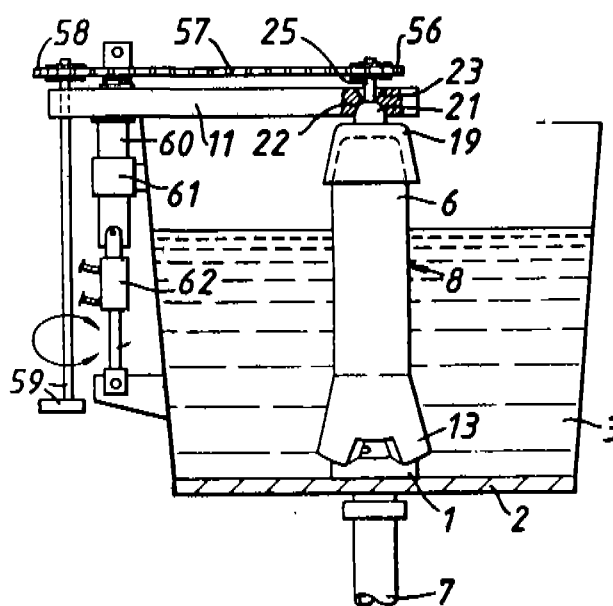
Application No. 189/Maa/86 filed on March 14, 1986

Convention date: March 26, 1985; (No. 8507880; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras branch.

**17 Claims**

An outlet valve for a melt-containing vessel comprising a lower insert piece mounted in the base of the vessel having an outlet bore passing therethrough from the inside to the outside of the vessel, an elongate shaft located above and pressed down upon the lower insert piece, the shaft having a lower face mating with an upper face of the lower insert piece, the shaft being rotatable relative to the lower insert piece about a generally vertical axis, the bore through the lower insert piece being offset, at least at its upper end, from the axis of rotation, and the shaft having one or more side openings at the lower end thereof capable of aligning with the top of the bore through the lower insert piece in at least one rotational position.



Compl. Specn. 25 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 157-D<sub>4</sub>

167184

Int. Cl.<sup>4</sup>: B 60 D 7/02**A RAILWAY COUPLER**

Applicant: AMSTED INDUSTRIES INCORPORATED, OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS, 60601, U.S.A., A U.S. COMPANY.

Inventor: RUSSELL GEORGE ALTHERR.

Application No. 192/Maa/86 filed on March 17, 1986.

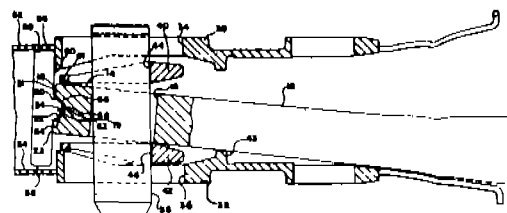
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras branch.

**8 Claims****A railway coupler comprising**

an elongated shank portion in the center sill structure, said shank portion having a butt end, said butt end having a vertical groove therein, said groove formed by two outwardly angled sides and a front wall joining said sides

and a follower block having a vertical projection extending from a front face thereof, said projection formed by two angled side walls and a front wall joining said side walls,

said follower block projection being shaped to conform to said vertical groove so as to be received in said shank butt end vertical groove to limit the horizontal movement of the shank butt end.



Compl. Specn. 10 Pages.

Drgs. 1 Sheet.

(of size 33.00 cms. by 41.00 cms.)

Ind. Cl.: 187-E<sub>4</sub> & F-[LXI(2)]

167185

Int. Cl.<sup>4</sup>: H 04 M 7/10 & H 04 Q 3/14

# AN APPARATUS FOR CONTROL OF A HANDS FREE TELEPHONE SET OPERATING IN ALTERNATION BETWEEN SENDING AND RECEIVING.

Applicant: JEUMONT-SCHNEIDER, OF 31-32, QUAI DE DION BOUTON 92811 PUTEAUX CEDEX, FRANCE, A FRENCH COMPANY.

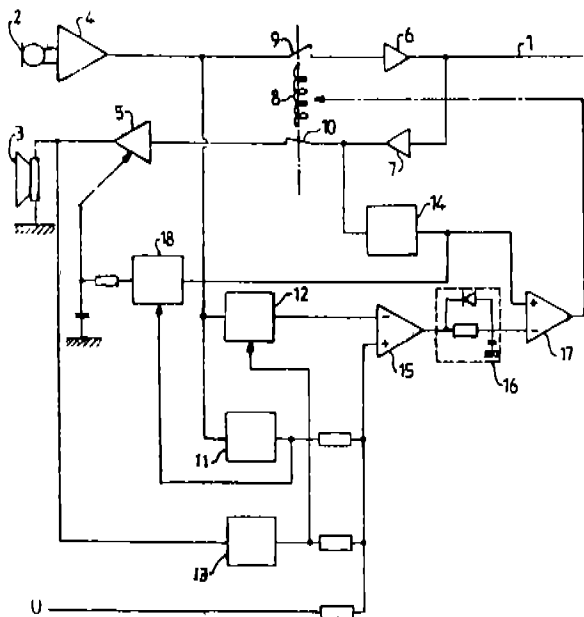
Inventor: (1) SERGE BROSSAUD, (2) LAURENT TERRIER.

Application No. 216/Mas/86 filed on March 25, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 6 Claims

An apparatus to initiate the reversal of an inverter controlling the placement in reception or emission position of a so-called hands-free telephone set functioning in alternation, by the intermediary of two interrupters (9, 10) arranged in series in the emission and reception lines respectively, and constituting the said inverter (8), characterized in that it comprises a first and second integrator (12, 13) with low time constant, whose inputs are connected respectively upstream of the said interrupter (9) on the emission line, and whose outputs are connected respectively to the two input terminals of a first amplitude comparator (15), with the sign of the output signal of this comparator (15) controlling the position of the said inverter (8), and consequently that of the said interrupters (9, 10).



Compl. Specn. 12 Pages.

Drg. 1 Sheet.

Ind. Cl.: 187-C<sub>1</sub> & 3

167186

Int. Cl.<sup>4</sup>: H 04 L 5/00

H 04 J 3/00

# SWITCHING ARRANGEMENTS FOR DIGITAL TELECOMMUNICATIONS EXCHANGE SYSTEMS.

Applicant: PLESSEY OVERSEAS LIMITED, A BRITISH COMPANY, OF VICARAGE LANE, ILFORD ESSEX IG1 4AQ, ENGLAND.

Inventors: (1) MARTIN JOHN LINDA, (2) KEVIN STEVEN GRIFFIN.

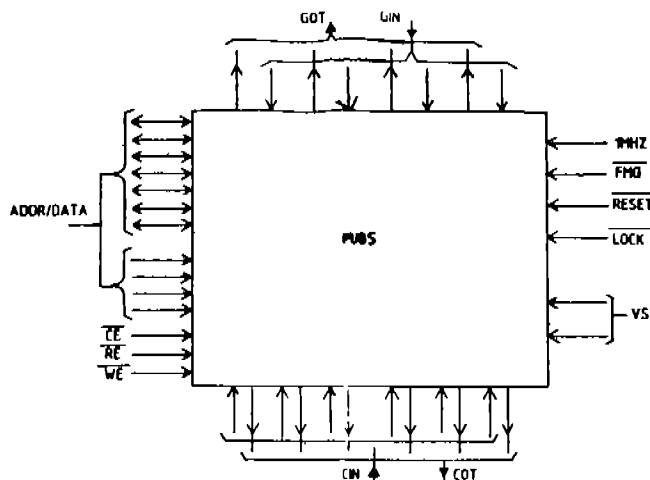
Application No. 212/Mas/86 filed on March 24, 1986.

Convention date: April 3, 1985; (No. 8508740; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 9 Claims

Switching apparatus for use in digital telecommunications exchange systems wherein said apparatus has a traffic area, a group interface area, a control area and a timing area, and comprises selector means which is arranged to interface between a plurality of time division multiplex highway group terminations and a plurality of input and output channel digital traffic paths, wherein the selector means is microprocessor controlled to effect a plurality of different switching connectivity modes enabling bidirectional communication between the input and output channel digital traffic paths, and between the time division multiplex highway group terminations, and to effect said bidirectional communication when the operating input and output rates of the particular connectivity is either compatible or incompatible, the selector means further having clock timing means located in the timing area, driven from a master clock signal to provide internal selector means timing, and a plurality of first register means and a second register means arranged to be controlled by the microprocessor, said first register means is provided for each of the plurality of input and output channel digital traffic paths, and said second register means is provided in common with all said traffic paths, a loopround control register means, located in the control area is connected to the group interface and traffic areas to control connectivity of the traffic paths and of the highway group terminations, an offset control, located in the control area is connected to the group interface area and arranged to control the timeslot being read from highway group terminations, and being written to the highway group terminations, and a channel monitor control, located in the control area, is connected to the traffic area and arranged to monitor the input and output channel traffic paths.



Compl. Specn. 27 Pages.

Drgs. 20 Sheets.  
(each of size 33.00 cms by 41.00 cms.)

Int. Cl. : 80-K-[GROUP-VI]

167187

Int. Cl.<sup>4</sup> : B 01 D 25/08**DIRECT-FLUSHING FLUID FILTER.**

Applicant & Inventor : PERETZ ROSENBERG, OF MOSHAV BEIT SHEARIM (NO LOT NUMBER), ISRAEL.

Application No. 221/Mas/86 filed on March 26, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**11 Claims**

A direct-flushing fluid filter, comprising :

a housing (2);

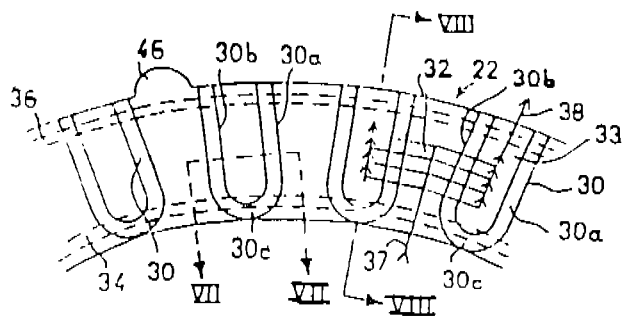
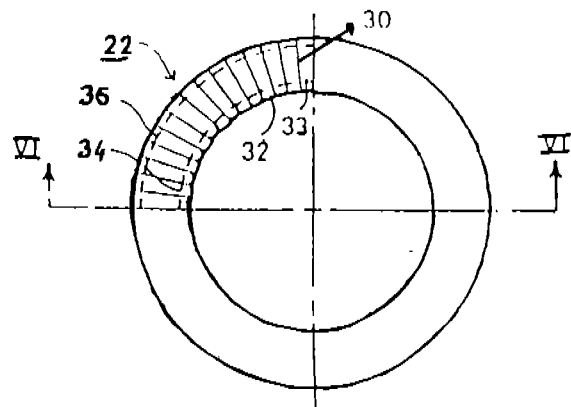
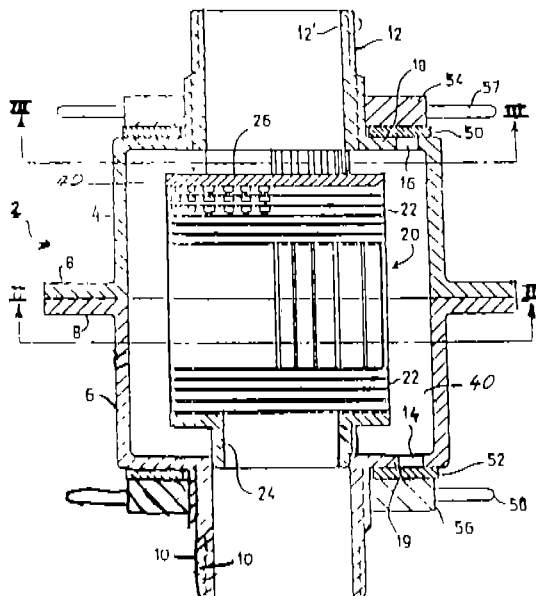
a filter body (20) having a stack of discs (22) formed with ribs (30) disposed within said housing (2);

said housing (2) having an inlet (10) for the fluid, a filtered fluid outlet (12), and a dirt-purging outlet (14, 16);

said filter body (20) and housing (2) having a first plurality of parallel flow paths (32, 33, 44) from said inlet (10) to said filtered fluid outlet (12), and a second plurality of parallel flow paths (32, 42) from said inlet (10) to said dirt-purging outlet (12);

each of said first plurality of parallel flow paths (32, 33, 44) having a filter passageway (clearance between 30a, 30b and 34, 36) for removing dirt particles, and an inlet chamber (32) on the inlet side of the respective filter passageway for accumulating the dirt particles;

each of second plurality of parallel flow paths (32, 42) connecting said inlet chambers (32) to said dirt-purging outlet (14, 16) while bypassing its respective filter passageway.



Compl. Specn. 19 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 68 D-[GROUP-LVII (3)]

167188

Int. Cl.<sup>4</sup> : H 01 C 7/10**AN ELECTRICAL CONNECTOR FOR CONNECTING A PLURALITY OF ELECTRICAL LINES.**

Applicant : RAYCHEM LIMITED, A BRITISH COMPANY, OF ROLLS HOUSE, 7 ROLLS BUILDINGS, FETTER LANE, LONDON, E. C. 1, ENGLAND.

Inventors : (1) JOHN REGINALD VINSON, (2) DAVID CROFTS, (3) ANTHONY JAMES MOORE, (4) CHRISTOPHER JOHN PORTER.

Application No. 232/Mas/86 filed on March 31, 1986.

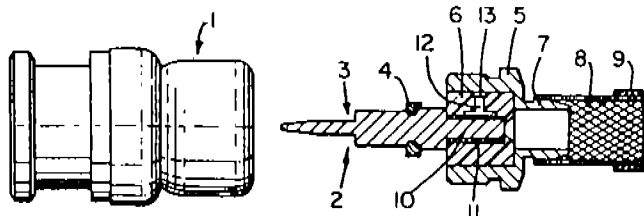
Convention date : March 29, 1985; (No. 8508304; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**14 Claims**

An electrical connector for connecting a plurality of electrical lines, which comprises a housing having one or more electrical conductors extending therethrough and an electrically conductive element that is arranged to be earthed, the or each electrical conductor having associated therewith a threshold switching device which comprises a pair of electrodes separated from one another by a layer of

switching material that has been deposited on one of the conductors, the material being electrically insulating but becoming electrically conductive on application of a predetermined electrical voltage between the electrodes and remaining conductive only for as long as a minimum holding current passes through the material, the switching material being consisting of an amorphous composition comprising germanium, arsenic and selenium, and having an energy to latch of at least 40 mj for a 10 micrometre thickness and a figure of merit of at least  $5 \text{ kgm}^2\text{A}^{-1}$ , one electrode being connected to the associated conductor and the other electrode being connected to the electrically conductive element, so that if the or any conductor experiences a voltage transient, the transient will be passed to earth by the switching device or devices.



Compl. Specn. 39 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 32-F. 2(b)-[GROUP-IX(1)]  
Int. Cl.<sup>4</sup> : C 07 D 233/32; 233/48

167189

#### IMPROVEMENT IN A PROCESS FOR PRODUCING 1, 3-DIALKYL-2-IMIDAZOLIDINONE

Applicant: MITSUI TOATSU CHEMICALS, INC., A CORPORATION ORGANIZED UNDER THE LAWS OF JAPAN, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

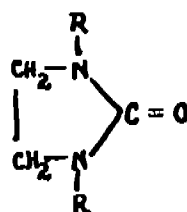
Inventors: (1) TERUYUKI NAGATA, (2) NOBUYUKI KAJIMOTO, (3) MASARU WADA, (4) HIDEKI MIZUTA, (5) AKIHIRO TAMAKI.

Application No. 246/Mas/86 filed on April 3, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

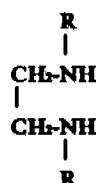
4 Claims

In the process for producing 1, 3-dialkyl-2-imidazolidinone expressed by the formula (2) of the accompanying drawings



Formula 2

wherein R represents  $-\text{CH}_3$ ,  $-\text{C}_2\text{H}_5$ ,  $-\text{C}_3\text{H}_7$  or  $-\text{O}_4\text{H}_9$ , by reacting a N,N'-dialkylethylenediamine expressed by the formula (1)



wherein R is as defined above, with urea, the improvement which comprises carrying out the reaction at a temperature of  $180^\circ\text{C}$  to  $300^\circ\text{C}$  in the presence of a polar solvent.

The compounds prepared according to this invention are excellent solvents for high molecular substances such as polyamides, P. V. C., polystyrene etc.

Compl. Specn. 16 Pages.

Drg. 1 Sheet.

Ind. Cl. : 84-C (1)-[GROUP-XXXI]  
Int. Cl.<sup>4</sup> : F 23 K 1/02

167190

#### A PROCESS FOR PREPARING STABLE AQUEOUS COMBUSTIBLE SLURRIES.

Applicant: SNAMPROGETTI S.p.A., A COMPANY ORGANIZED UNDER LAW OF THE ITALIAN REPUBLIC, OF CORSO VENEZIA, 16-MILAN, ITALY.

Inventors: (1) LAGANA' VINCENZO, (2) PICCININI CARLO, (3) DONATI ELIO.

Application No. 256/Mas/86 filed on April 8, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for preparing stable aqueous combustible slurries containing from 50% by weight to 80% by weight of petroleum coke, comprising the steps of:

- a finely grinding at least once petroleum coke and
- blending said finely ground petroleum coke with water, fluidizing additives and from 0.2% to 3% on a weight basis relative to the overall weight of the slurry, of bentonite clay.

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl. : 172-Da-[GROUP-XX]  
Int. Cl.<sup>4</sup> : D 01 H 1/04

167191

#### A DEVICE FOR POSITIONING THE FLYERS IN A DESIRED ANGULAR POSITION WHENEVER A TEXTILE MACHINE IS STOPPED.

Applicant: LAKSHMI MACHINE WORKS LIMITED, AN INDIAN COMPANY, OF PERIANAICKENPALAYAM, COIMBATORE-641 020, TAMIL NAUD, INDIA.

Inventor: KULUR BALRAM KRISHNAN.

Application No. 1019/Mas/85 filed on December 19, 1985.

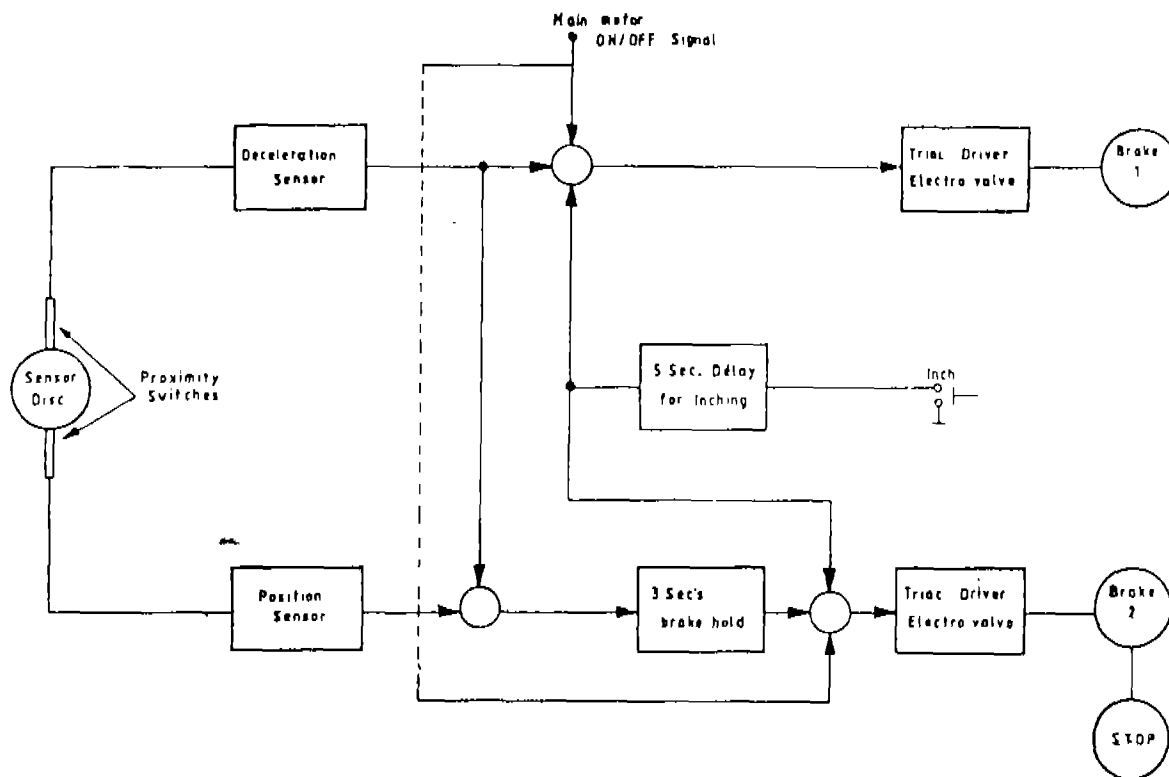
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.



## 5 Claims

A device for positioning the flyers (1) in a desired angular position whenever a textile machine is stopped, comprises : means for

synchronising the flyers (1) with the said textile machine, deceleration sensor means (7) and brake means (9) to reduce the speed of the said textile machine; position sensor means (6) and brake means (10) to stop the said textile machine at the desired position.



Compl. Specn. 6 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 146-D1  
Int. Cl.\* : C 01 C 3/00

167192

5 Claims

### AN OPTICAL RANGE SIMULATOR DEVICE.

Applicant: BARR & STROUD LIMITED, OF CAXTON STREET, ANNIESLAND, GLASGOW G 13 1 H Z, SCOTLAND, A BRITISH COMPANY.

Inventors: (1) TIMOTHY OWEN FRENCH, (2) DEREK RUSSELL CARLESS (3) REGINALD ALBERT AULT.

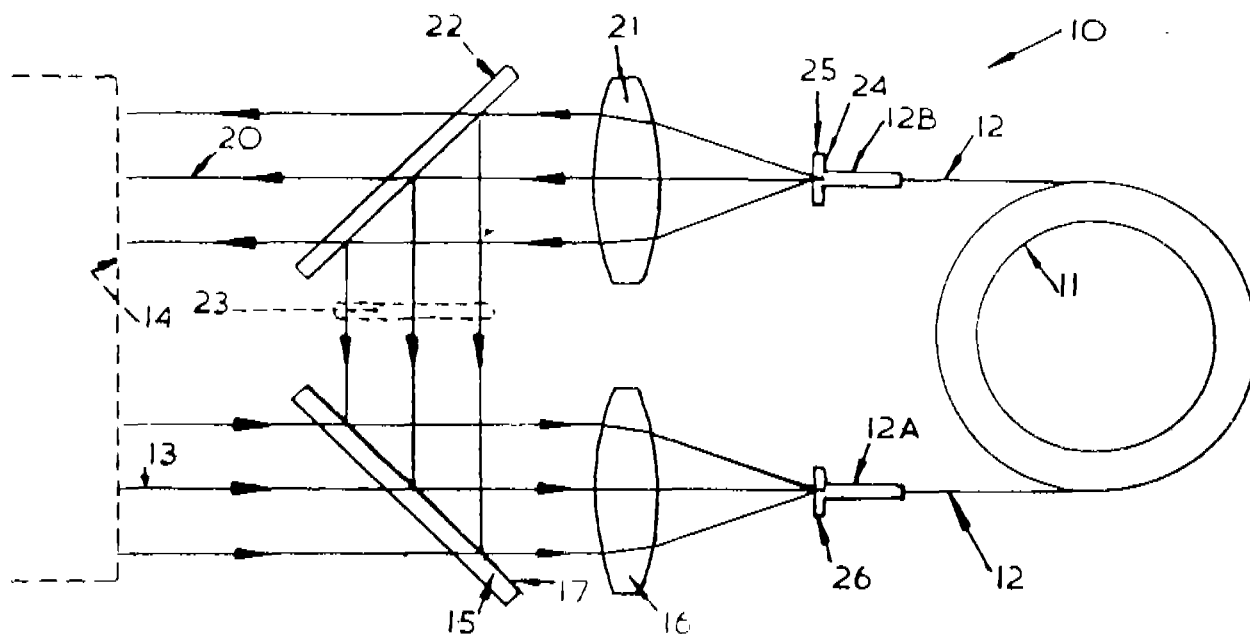
Application No. 100/Maa/87 filed on February 13, 1987.

Divisional to Patent No. 160789 (Ante-dated to May 18, 1984)

Convention date: May 19, 1983; (No. 8313875; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

An optical range simulator device for testing the ranging function of a laser rangefinder characterized in that the first means defining a first optical axis for receiving output pulses from the rangefinder to be tested, second means defining a second optical axis parallel to said first optical axis for delivering return pulses to the rangefinder, and optical fibre delay line having a fibre input end and a fibre output end, the input and being coupled to receive light from said first optical axis and the output end being coupled to deliver light to said second optical axis, an optical bridging means comprising a pair of orthogonal beamsplitters one beamsplitter being disposed across said second optical axis and the other being disposed across said first optical axis said optical bridging means being arranged to collect at least a portion of each pulse delivered at the output end of said delay line and to deliver each said collected pulse portion to the fibre input end of said delay line, whereby for each output pulse received from the rangefinder along said first optical axis a series of successively delayed return pulses are delivered at the output end of the delay line at ranges successively augmented by that range distance represented by the optical fibre delay line.



Compl. Specn. 10 Pages.

Dr. 1 Sheet

CLASS : 25 A.

167193

Int. Cl.<sup>4</sup> : B 28 B 5/00.

**A DEVICE FOR PREPARING PRESSED SOIL BLOCKS FOR USE IN BUILDING AND CONSTRUCTION.**

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, I.I.T., P.O., MADRAS-600 036, TAMIL NADU, INDIA, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

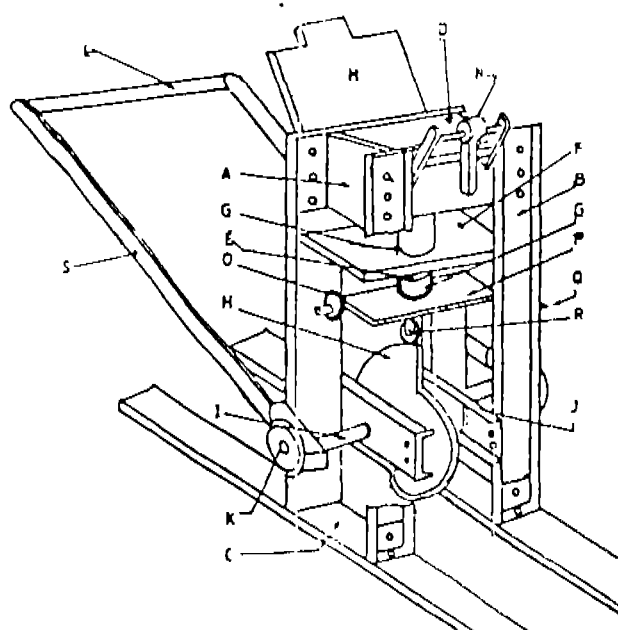
Inventors : (1) DR. THIRUMANAMPET PONNUSWAMY GANESAN, (2) DR. PANCHAPAKESAN KALYANASUNDARAM, (3) DR. MOOKENCHERIL SIMON MATHEWS AND (4) REVURI CHANDRA SEKHAR.

Application No. 200/Mas/87 filed on March 19, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A device for preparing pressed soil blocks for use in building and construction comprising a mould box provided with a lockable lid supported above ground level; a plunger plate forming a mating slide-fit in the mould box, the plunger plate being carried by a pillar; a roller resting on a cam provided at the base of the pillar, the said cam being mounted on a shaft provided with lever heads detachably engaging with a lever provided with a handle whereby the said lever is operable to actuate the cam and thrust the plunger plate upwardly within the mould box.



Compl. Specn. 8 Pages.

Dr. 1 Sheet

Ind. Cl. : 146-D-[GROUP-XXXVIII (2)]

167194

Int. Cl.<sup>4</sup> : G 03 B 21/00.

**ADDITIVE COLOUR VIEWER FOR ANALYSIS AND INTERPRETATION OF REMOTE SENSING DATA.**

Applicant : NATIONAL REMOTE SENSING AGENCY, BALANAGAR, HYDERABAD-500 037, ANDHRA PRADESH, INDIA, A SOCIETY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

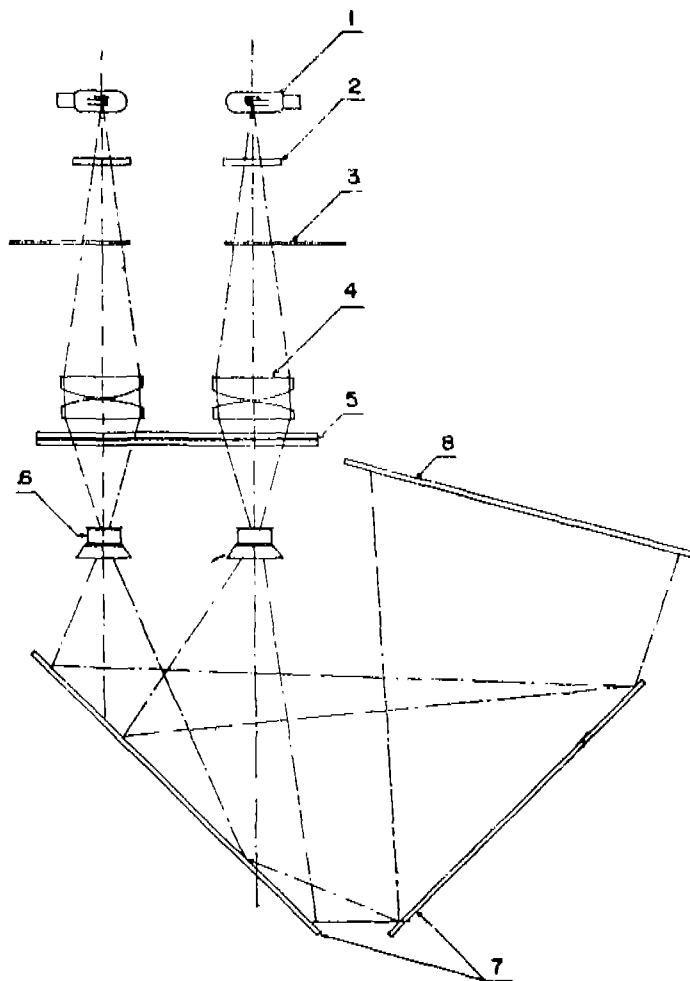
Inventors : (1) KESHAVE MURTHY RAMACHANDRA RAO, (2) BULUSU LAKSHMANA DEEKSHATULU, (3) OM PRAKASH BAJPAI, (4) YELLAPPA SAMBAMURTHY, (5) KUNDA MOHAN MURLIDHAR RAO, (6) YARLAGADDA RAVINDRA BABU & (7) RAJARAMAN RAMACHANDRAN.

Application No. 331/Mas/87 filed on May 8, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 7 Claims

A colour additive viewer for analysis and interpretation of remote sensing data comprising a plurality of channels of an optical projecting system, each channel having a projection lamp with a heat absorbing glass plate beneath it; a colour filter selection wheel disposed below the said glass plate; a condenser lens located below the filter wheel, and a projection lens placed below the condenser lens, the said viewer further comprising an input film plane for receiving the film to be viewed, said film plane being disposed between the condenser lenses and the projection lenses of all the channels; a plurality of folding mirrors located below the projection lenses of all the channels for reflecting the projected light rays onto a viewing screen.



Compl. Specn. 11 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 116 D & G-[GROUP-XLIX],  
Int. Cl.<sup>4</sup> : B 66 F 9/12.

167195

A DEVICE FOR LIFTING AND TILTING AN OBJECT HAVING A CYLINDRICAL CORE.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, I.I.T., P.O., MADRAS-600 036, TAMIL NADU, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA, UNDER AN ACT OF PARLIAMENT.

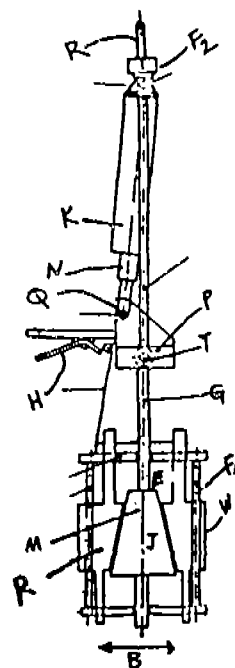
Inventors : (1) DR. KOLISETTI RAMAKOTESWARA RAO & (2) PROF. MANJERI ANANTARAM PARAMESWARAN.

Application No. 416/Mas/87 filed on June 5, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 3 Claims

A device for lifting and tilting an object having a cylindrical core comprising a truncated conical member mounted in a first framework and linearly movable in either direction therein along its axis; a plurality of wedge members having tapering surfaces closely surrounding the conical member, the said wedge members being located in the first framework and linearly movable in either direction, both parallel and transversely, to the axis of the conical member; a plate, attached to a trunnion assembly mounted on a hoistable second framework, the narrow end of the conical member being coupled to the said assembly; a hydraulic/pneumatic jack mounted on the second framework, the piston of the jack being pivotally attached to the plate, whereby insertion of the first framework into the core and linear movement of the conical member in an outward direction with respect to the core, produced by manipulation of the second framework, causes the conical member to slidably urge the wedge members against the inner periphery of the core, to grip it, thus enabling the object to be lifted by hoisting the second framework, the object being thereafter tiltable by operation of the jack and hence the assembly, the grip on the core, however, being releasable, when required, by means such as an operating handle mounted on the plate and attached to a cable passing through all the wedge members.



Compl. Specn. 13 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32-F-3(c)-[GROUP-IX(1)]  
Int. Cl.<sup>4</sup> : C 07 C 29/36; 31/20.

167196

AN IMPROVED METHOD OF MAKING ETHYLENE GLYCOL BY THE ELECTROCHEMICAL REDUCTION OF A FORMALDEHYDE-CONTAINING ELECTROLYTE.

Applicant : NORMAN LOUIS WEINBERG, OF 95, CHASEWOOD LANE, EAST AMHERST, NEW YORK 14051, UNITED STATES OF AMERICA, A U.S.A. CITIZEN AND (2) SKA ASSOCIATES, OF 3929 BROADWAY, BUFFALO, NEW YORK 14227, UNITED STATES OF AMERICA, A PARTNERSHIP FIRM OF WHICH THE PARTNERS ARE (i) STEPHEN BOGDAN KORDUBA, OF 4681 WINDING LANE, CLARENCE, NEW YORK 14031, UNITED STATES OF AMERICA, A U.S. CITIZEN AND (ii) DOROTHY ANTIONETTE KORDUBA, OF 4981, WINDING LANE, CLARENCE, NEW YORK 14031, UNITED STATES OF AMERICA, A U.S. CITIZEN.

Inventor : NORMAN LOUIS WEINBERG.

Application No. 183/Mas/88 filed on March 21, 1988.

Divisional to Patent to 162985 (760/Mas/84); Ante-dated to October 9, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims

In a method of making ethylene glycol by the electrochemical reduction of a formaldehyde-containing electrolyte at a pH in the range of 1 to 10 in an electrolytic cell equipped with a cathode formed from carbons and an anode, the improvement comprising conducting a useful process at the anode such as herein described, simultaneously with the electrochemical synthesis of ethylene glycol at the cathode, said useful anode process comprising any reaction occurring at the anode which will lower power consumption.

Compl. Specn. 35 Pages.

Drg. 1 Sheet.

Ind. Cl. : 55-D2-[GROUP-XIX(1)]  
Int. Cl.<sup>4</sup> : A 01 N 37/06; 57/00.

167197

A PROCESS FOR PREPARING AN INSECTICIDAL COMPOSITION FOR THE CONTROL OF A COCKROACH POPULATION.

Applicant : SANDOZ LTD., OF CH-4002, BASLE, SWITZERLAND, A SWISS COMPANY.

Inventor : ROBIN R. RUDOLPH.

Application No. 238/Mas/88 filed on April 15, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 8 Claims. No Drawing

A process for preparing an insecticidal composition for the control of cockroach population comprising combining (E)-1-methyl-ethyl-3-( (ethylamino) methoxyphosphinothioxy)-2-butenate commonly known as "propretamphos" and ethyl (2E, 4E)-3, 7, 11-trimethyl-2, 4-dedecadienoate commonly known as "hydroprene" in the weight ratio of 1 : 1 to 224 : 1.

Compl. Specn. 27 Pages.

Ind. Cl. : 32-C-[GROUP-IX(1)]  
Int. Cl.<sup>4</sup> : c 07 K 7/08.

167198

METHOD OF PRODUCING A PEPTIDE.

Applicant : VIRAL TECHNOLOGIES, INC., A DELAWARE CORPORATION, OF 777 14TH STREET, N.W., WASHINGTON, D.C. 20005, UNITED STATES OF AMERICA.

Inventors : (1) ALLAN L. GOLDSTEIN & (2) SU SUN WANG.

Application No. 235/Mas/88 filed on April 12, 1988.

Convention date : May 15, 1987. (No. 8711567; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 3 Claims

A method of producing a peptide having the formula :

A-Ile-Y<sub>1</sub>-Y<sub>2</sub>-Lys-Asp-Thr-Lys-Glu-Ala-  
Leu-Y<sub>1</sub>-Lys-Ile-Glu-Glu-Glu-Gln-As n-B.

wherein Y<sub>1</sub> is Asp or Glu,

Y<sub>2</sub> is Val or Ile, and,  
Y<sub>3</sub> is Glu or Asp

A is NH<sub>2</sub> or an amino acid sequence of up to 10 amino acids, and

B is COOH or an amino acid sequence of up to 10 amino acids, by solid phase peptide synthesis, according to the following steps :

- temporarily protecting the reactive amino group of the C-terminal amino acid;
- chemically binding the protected C-terminal amino acid via the carboxylic acid group thereof to an insoluble resin support;
- chemically deprotecting the reactive amino group of the resin-bound protected C-terminal amino acid;
- chemically coupling via a peptide, the next amino acid; in the amino acid sequence of said peptide, by contacting the resin-bound amino acid from the C-terminal from step (c) with said next amino acid in the sequence from the C-terminal having its reactive amino groups chemically protected, in the presence of a coupling agent;
- chemically deprotecting the reactive alpha-amino group of the coupled amino acid from step (d);
- continuing the synthesis by repeating steps (d) and (e) with each successive amino acid in said sequence of amino C-terminal thereof to the N-terminal thereof; and
- cleaving the resulting peptide of said formula from the resin support and deprotecting the protected reactive groups.

The peptides prepared according to this invention can be used to prepare antigen that can form antibodies capable of neutralizing the AIDS virus.

Compl. Specn. 59 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 83-A-[GROUP-XIV (5)]  
Int. Cl.<sup>4</sup> : A 23 L 1/312.

167199

# A METHOD FOR MAKING A THERMO-IRREVERSIBLE AQUEOUS GEL.

Applicant : MARS G. B. LIMITED, A BRITISH COMPANY,  
OF 3D DUNDEE ROAD, SLOUGH, BERKSHIRE SL1 4LG,  
UNITED KINGDOM.

Inventors : (1) GARY DAVID MUSSON & (2) COLIN TO  
PREST.

Application No. 289/Mas/88 filed on May 4, 1988.

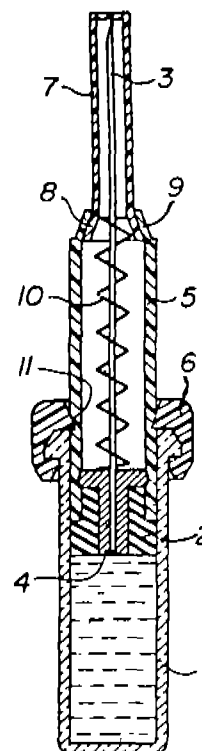
Convention date : 6th May, 1987. (No. 87 10704; United  
Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Madras Branch.

7 Claims. No Drawing

A method for making a thermo-irreversible aqueous gel, which  
comprises subjecting a gellable combination of xanthan gum and  
glucomannan gum in a ratio from 5 : 95 to 95 : 5 in a neutral to  
alkaline aqueous phase to a heat treatment till the gel become thermo-  
irreversible, the concentration of xanthan gum and glucomannan  
gum in the aqueous phase being from 0.02% to 6% by weight of the  
gel.

Compl. Specn. 10 Pages.



Compl. Specn. 15 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 128-F-[GROUP -XIX (2)]  
Int. Cl.<sup>4</sup> : A 61 M 5/18; 5/32.

167200

# A SYRINGE CAPABLE OF BEING USED ONLY AS A PRE-FILLED SYRINGE.

Applicant & Inventor : JACQUES VERLIER, A SWISS  
CITIZEN, OF 16, RUE MICHELSERVET, 1206 GENEVE,  
SWITZERLAND.

Application No. 465/Mas/88 filed on July 5, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Madras Branch.

9 Claims

A syringe capable of being used only as a pre-filled syringe com-  
prising a hollow syringe body closed at one of its ends and open at the  
end; a piston slidably mounted inside the syringe body and defining  
between the closed end of the syringe body and the piston a compart-  
ment for containing a substance to be injected; an injection needle,  
the base of which is fastened to a needle support member, said support  
member and said piston being adapted for allowing at least partial  
insertion of said support member in said piston and for allowing the  
needle to communicate with said syringe body compartment upon  
said insertion; telescopic sleeve means, with retaining means for fast-  
ening the sleeve member to the syringe body, provided around at  
least the tip portion of said needle in slidable relationship with said  
syringe body; and compression spring means provided between said  
sleeve means and said piston.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to  
inspection for a period of two years from the date of registration  
except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration in  
the entry.

Class 3. No. 161745. Parker Pen (Benelux) B.V., a Netherlands  
Company of Parker House, 4817 BL Breda, Netherlands.  
"Writing instrument". Priority date July 6, 1989.

Class 3. No. 162015. Shah Engineering, Dayasagar, Bhayandar (E),  
Dist. Thane 401105, Maharashtra, India, Indian Part-  
nership Firm. "Tape Dispenser".

Class 3. No. 162049. Raj Electrical Industries, 21/4-Shakti Nagar,  
Delhi-110007, India, a Proprietary Firm. "Car Cooler".  
April 23, 1990.

Class 3. No. 162142. Reckitt & Colman, 15, rue Ampere, 91301  
Maasy Cedex, France, a French Joint-Stock Company.  
"Dispenser for volatile materials". May 24, 1990.

Class 12. No. 162081. Veljee Cosmetic Industries, a proprietary con-  
cern, Shop No. 7, Jesuit House, Near Municipal Garden,  
Panjim, Goa, India. May 3, 1990.

R. A. ACHARYA,  
Controller General of Patents,  
Designs and Trade Marks.

